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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/623,657	07/22/2003	Tsutomu Ishi	Q75241	4739	
23373 SUGHRUE M	23373 7590 07/19/2007 SUGHRUE MION, PLLC			EXAMINER	
2100 PENNSY	LVANIA AVENUE, N.W.		DINH, TAN X		
SUITE 800 WASHINGTON, DC 20037		ART UNIT 2627	ART UNIT	PAPER NUMBER	
			2627		
			MAIL DATE	DELIVERY MODE	
			07/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

· ·	Application No.	Applicant(s)			
	10/623,657	ISHI ET AL.			
Office Action Summary	Examiner	Art Unit			
•	TAN X. DINH	2627			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. tely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status		•			
 1) ⊠ Responsive to communication(s) filed on 11 Ju 2a) ⊠ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E 	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 4,6,7,13 and 15-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers	•				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction in the original transfer of the correction is objected to by the Example 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(c)					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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1) The amendment filed 7/13/2007 is acknowledged. Claims 1-3,5,8-12,14 and 19-29 have been canceled.

- 2) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3) This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4) Claims 4,6,7,13 and 15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over YAMANAKA(6,205,108) and APPLICANT'S RELATED PRIOR ART (EBBESEN et al. 6,236,033).

YAMANAKA discloses an optical module having module as claimed

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in claim 4, comprising an optical device including a conductive film having first and second surfaces, at least one aperture provided in conductive film and extending from first surface to second surface and a surface topography formed on at least one of first and second surfaces, wherein surface topography increases an intensity of light incident onto one of the first and second surfaces and transmitted through the aperture (Fig.3, phase shift 4. See also figures 4 and 5), wherein the center of light flux of light incident on the conductive film is deviated from the center of the aperture and wherein a displacement between the center of light flux of light incident on the conductive film and the center of the aperture is i/2 or less of the diameter of the light flux (figure 4 and column 4, lines 24-48), except to specifically show that the surface topography is the shape of concentric circles. However, this feature is old and widely used in the optical recording art as disclosed by applicant in the specification, page 3, paragraph [07] (applicant admitted the surface topography having shape of concentric circles is a well known feature in US 6,236,033 of EBBESEN et al's figure 6A, surface topography 40 for enhancing optical transmission). Since the method as taught by EBBESEN et al is old and well known in the art as shown above, obviously, someone within the level of skill in the art at the time of the invention was made would have been

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motivated to use the surface topography with shape of concentric circles in YAMANAKA's optical head for enhancing the optical transmission as claimed.

As to claims 6 and 7, YAMANAKA shows light flux incident on optical device includes aperture (figure 4, aperture at center).

Claim 13 is rejected with the same reasons set forth in claim 1 above.

Claim 15 is rejected with the same reasons set forth in claims 6 and 7 above.

As to claim 16, YAMANAKA shows the displacement between center of aperture and surface topography is $\frac{1}{4}$ or less (column 4, lines 35-48).

YAMANAKA discloses all the subject matter as claimed in claims 17 and 18, except to specifically show an optical fiber for transmitting light source and light collecting system for collecting light emitted from optical fiber. However, optical fiber for transmitting light source and light collecting system for collecting light emitted from optical fiber are widely used in near-field optical recording (for example, see KASAMA et al, US 6,631,227 in last Office action). Therefore, to use optical fiber for transmitting light source and light collecting system in YAMANAKA's optical head as claimed is deem obvious to someone within the level of skill in

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the art.

5) Applicant's arguments with respect to claims 4,6,7,13 and 15-18 have been considered but are moot in view of the new ground(s) of rejection.

6) Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP§706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7) Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAN XUAN DINH whose telephone number is (571)272-7586. The examiner can normally be reached on MONDAY to FRIDAY from 9:00AM to 5:00PM.

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The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov/. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

July 16, 2007